AEX-ST-DMC-MINI

Mini Dashcam Specification

Product Overview

As a professional, user-friendly, and cost-effective dash camera, Mini Dashcam supports 1 channel 2K UHD video recording, dual Micro SD card storage, and dual-stream video recording. In addition, it supports uploading video in real-time to a monitoring platform that can be reviewed by fleet managers to help fleets guide drivers and reduce traffic risks.

Product Features

- 2MP resolution with 143° DFOV for road-facing camera
- Support up to 2-channel video recording, H.264/H.265 video coding
- Dual Micro SD card storage, supporting dual-stream recording
- Built-in Wi-Fi and 4G module
- Support 4-channel input, 1 channel CAN, and 1 channel RS232
- Compact Design
- Support OBD powering, easy installation
- Support sleep mode (power consumption less than 0.1W)
- Support echo suppression algorithm to improve the quality of two-way voice intercom
- 6-axis gravity sensor detects intense driving behaviors (Harsh Acceleration, Deceleration, Sharp turn & Accident detection)

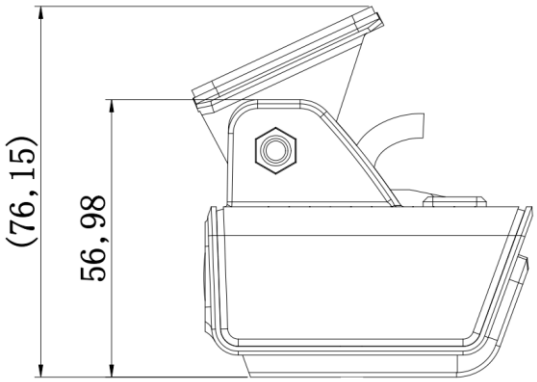
Specifications

Product Model: Mini	
System	Embedded Linux
Language	Support Chinese, English, Spanish, Portuguese, French, Russian, Japanese
Video/Audio	
Video/Audio Recording	2-channel video (default: 1 channel; extensible: 1 channel AHD) 1-channel audio input by default. For the extended version, there is also a 1-channel audio output
Total Resources	1080P@30fps (Front)+1080P@20fps
Image Setup	Adjustable brightness, chroma, contrast, color saturation, and sharpness
Video Coding	H.264 /H.265 (default: H.265)
Audio Compression Standard	ADPCM/G.711/G.726 (default: ADPCM)
CBR/VBR	Supported. VBR or CBR (optional), VBR by default
Audio	Built-in MIC
Loudspeaker	Built-in 3W loudspeaker
Road Facing Camera Parameters	
Sensor Type	1/2.8" 2-megapixel CMOS sensor
Shutter Speed	1/30s-1/100000s
Lens	2.6mm HFOV: 114° VFOV: 77° DFOV: 143°
Minimum illumination	Color: 0.05Lux/F1.2
Lens Mount	MDVR built-in lens
Wide Dynamic	Digital WDR

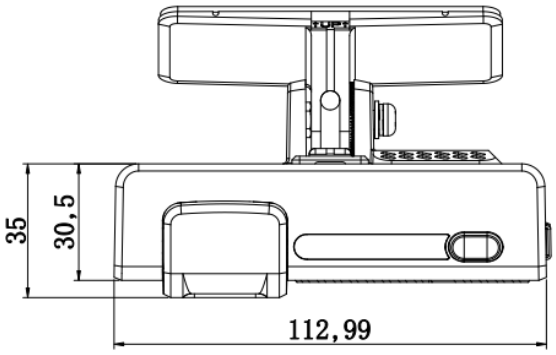
Range (WDR)			
Backlight Compensation	Supported		
Signal-to-Noise Ratio (S/N)	⩾48dB		
LED Indicator Status			
1. Power Status Indicator	Off/Blue	4. Network Status Indicator	Off/Red
2. Alarm Indicator	Off/Red	5. WiFi Status Indicator	Off/Red/Green
3. GPS Signal Indicator	Off/Red	6. Recording Status Indicator	Off/Red
Storage			
Micro SD card	Support two Micro SD cards, with the maximum capacity of a single card is 256 GB		
Sensor			
Six-axis Sensor	Supported, Harsh Acceleration, Deceleration, Sharp turn & Accident detection		
Engine Data Page			
CAN Data Collection	Supported		
Port			
RS232	1		
IO Port	4-channel input		
CAN	1		
USB	1 × mini USB port		
Network			
WIFI	Support 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/ IEEE Std.802.11g /IEEE Std.802.11n)		
4G	Supported For North America: EC25AFXGA-128-SGAS LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5 For Europe and Asia: EC25-EC LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8 For Latin America: EC25AUXGA-128-SGNS LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8		
Positioning			
GPS	Supported GPS L1 1575.42MHz BDS B1 1561.098MH GALILEO E1B/C1 GLONASS L1OF 1602MHz SBAS: WAAS, EGNOS, MSAS, GAGAN		
Protocol			

Network Protocol	HTTP,TCP,ARP,UDP,FTP,DHCP,DNS,IPV4,NTP
Power Related	
Power Supply	9-36V
Built-in Battery	Not supported
Power Consumption	Typical power consumption < 5 W, maximum power consumption ≤ 7 W
General Specifications	
Dimensions	113.0 mm (length) × 67.2 mm (width) × 57.0 mm (height, without bracket)
Weight	720g
Operating Temperature	-40°C - +70°C (-40°F - +158°F)
Storage Temperature	-40°C - +85°C (-40°F - +185°F)
Humidity	15% - 90%

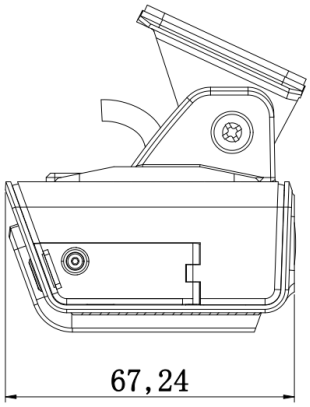
Dimensions (mm)



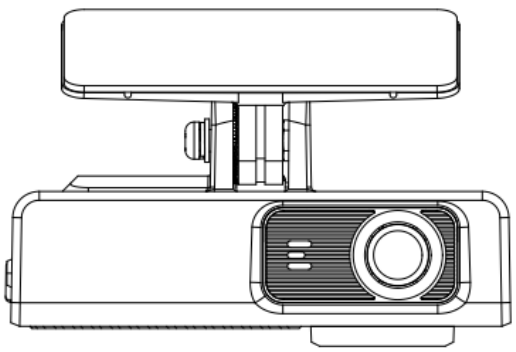
Left view



Front view



Right view



Rear view

System Connection Diagram

(1) System connection diagram for power supply through loose wire

None

(2) OBD wiring diagram

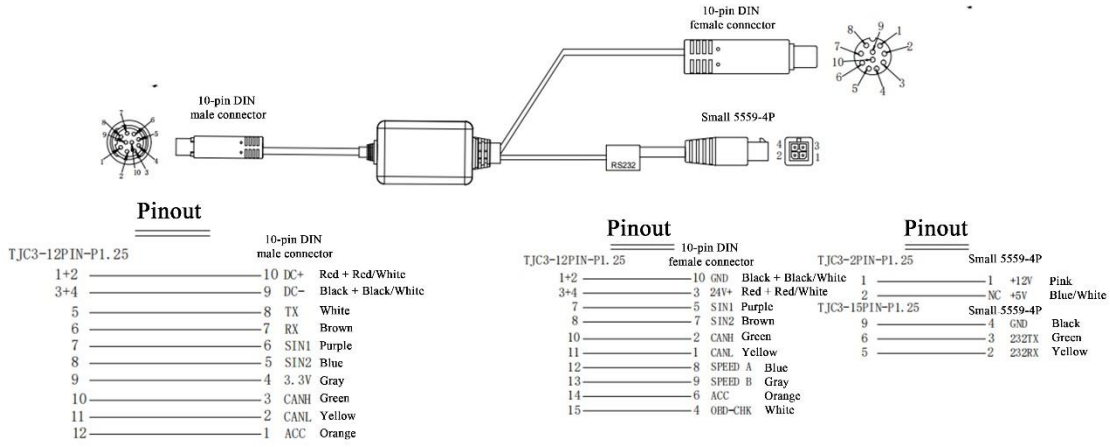
None

Cable Connector Pinouts

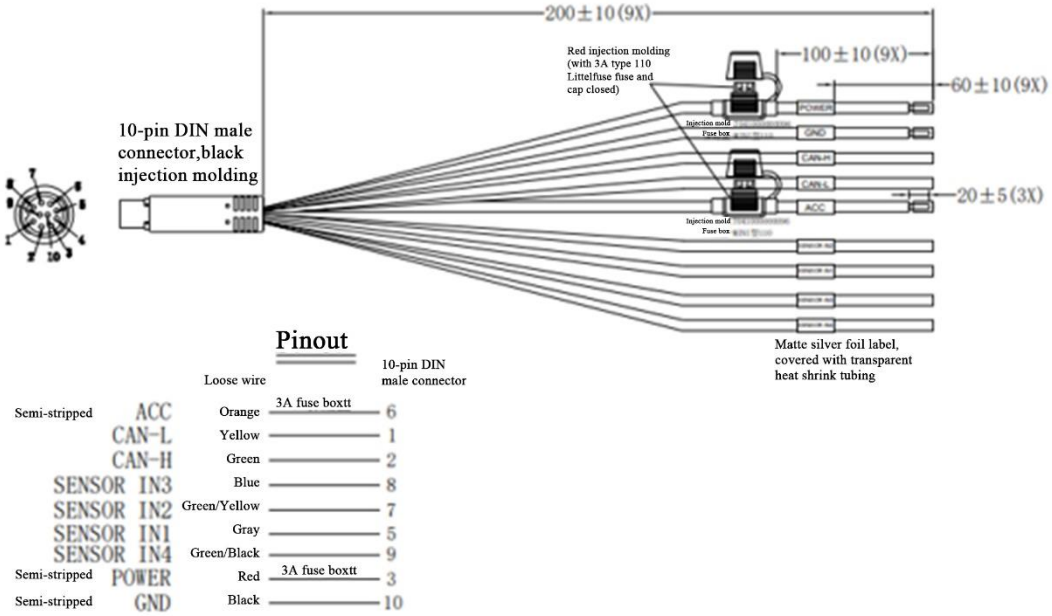
(1) Video output cable connector pinout

None

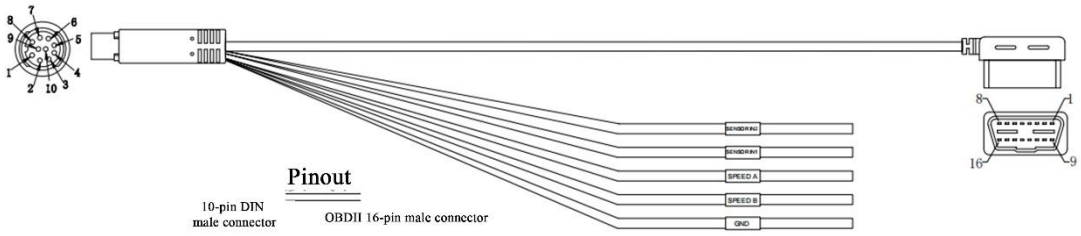
(2) Power supply box connector pinout



(3) Power output cable connector pinout



(4) OBD cable connector pinout



Pinout

10-pin DIN male connector		OBDII 16-pin male connector
GND Black	10+4	4+5
CAN-H Green	2	6
CAN-L Yellow	1	14
POWER Red	3 (3A resettable fuse)	16
SPEED A Green/Yellow	8	
SENSOR IN2 Blue	7	
SENSOR IN1 Gray	5	
SPEED B Green/Black	9	
CND Black	10	